

METHOD, SYSTEM, AND COMPUTER SOFTWARE PROGRAM PRODUCT FOR  
ANALYZING THE EFFICIENCY OF A COMPLEX PROCESS

ABSTRACT OF THE DISCLOSURE

5           A method of analyzing a workload schedule for a complex process with respect to  
resources available therefore is provided, wherein a plurality of projects comprising the  
complex process are identified, each project having a start date and a cycle time and  
further comprising at least one task. A hands-on work time required for each task is then  
determined, wherein the tasks include a task requiring a greatest hands-on work time. An  
10 effort equivalence for each task is thereafter determined by normalizing each task hands-  
on work time with respect to the task hands-on work time of the task requiring the  
greatest hands-on work time. The projects are arranged according to the start date and  
the cycle time and with respect to a calendar defining intervals such that each task is at  
least partially performed in one of the intervals. An apportionment of the effort  
15 equivalences is then determined for the intervals corresponding to the tasks at least  
partially performed in respective intervals, followed by a total effort equivalence for each  
interval, with the total effort equivalence corresponding to the sum of the effort  
equivalence apportionment for the tasks at least partially performed in that interval. The  
total effort equivalence for each interval is subsequently compared to a historical  
20 maximum effort equivalence volume so as to evaluate the workload schedule with respect  
to the available resources. Thereafter, where the total effort equivalence for an interval  
exceeds the historical maximum effort equivalence volume, the projects are modified so  
as to reapportion the total effort equivalences such that a relatively more efficient  
utilization of the available resources with respect to the workload schedule is thereby  
25 obtained. A related method for analyzing the productivity of a complex process is also  
provided, along with related systems and computer software program products.